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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/721,028	11/24/2003	Qing-Qing Qiu	GTIS-0010	4772
	7590 12/19/200 WASHBURN LLP	6	EXAMINER	
CIRA CENTRE	E, 12TH FLOOR		NAFF, DAVID M	
2929 ARCH STREET PHILADELPHIA, PA 19104-2891		•	ART UNIT	PAPER NUMBER
			1657	
				,
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		12/19/2006	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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10	Application No.	Applicant(s)				
	10/721,028	QIU ET AL.				
Office Action Summary	Examiner	Art Unit				
	David M. Naff	1657				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 28 Se	eptember 2006.					
•						
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-27 is/are pending in the application.	☑ Claim(s) <u>1-27</u> is/are pending in the application.					
4a) Of the above claim(s) 8-27 is/are withdrawn	4a) Of the above claim(s) <u>8-27</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-7</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>02 February 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119	•					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of: <ol> <li>Certified copies of the priority documents have been received.</li> <li>Certified copies of the priority documents have been received in Application No</li> <li>Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> </ol> </li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 2/24/04.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite				

Art Unit: 1657

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#### DETAILED ACTION

A response of 9/28/06 to a restriction requirement of 6/23/06 elected Group I claims 1-7 without traverse.

Claims in the application are 1-27.

Claims 8-27 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 9/28/06.

Claims examined on the merits are 1-7.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35

Art Unit: 1657

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U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Marcolongo et al (5,645,934) in view of Graves Jr et al (4,604,097).

The claims are drawn to a flexible, bioactive glass mesh comprising interwoven bioactive glass fibers coated with a resorable polymer.

Marcolongo et al disclose a composite material for implantation

10 comprising interwoven glass fibers impregnated with a polymeric

material. For example, see the abstract.

Graves Jr et al disclose biosorbable glass fibers coated with a protective coating (col 3, lines 30-32). The glass fibers can be coated with polylactic acid (col 5, line 38) for use as an implant.

It would have been obvious to coat the interwoven glass fibers of Marcolongo et al with protective coating of polylactic acid, instead of impregnating with a polymer, as suggested by Graves Jr et al coating glass fibers with polylactic acid for use as an implant.

## Claim Rejections - 35 USC § 103

Claims 4-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over the references as applied to claims 1-3 above, and further in view of Potter et al (15 on 1449).

The claims require the glass fibers to be interwoven with resorbable polymer fibers.

Potter et al disclose weaving techniques for producing fabric.

Art Unit: 1657

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It would have been obvious to interweave polylactic acid fibers with the glass fibers of Marcolongo et al using weaving techniques disclosed by Potter et al since Marcolongo et al disclose using one or more types of fibers and intermingling polymer fibers with the glass fibers (col 7, line 60 and col 8, lines 10-15). The polylactic fibers would have been expected to be advantageous because of being resorbable.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David M. Naff whose telephone number is 571-272-0920. The examiner can normally be reached on Monday-Friday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jon Weber can be reached on 571-272-0925. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1657

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

David M. Naff Primary Examiner Art Unit 1657

DMN

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